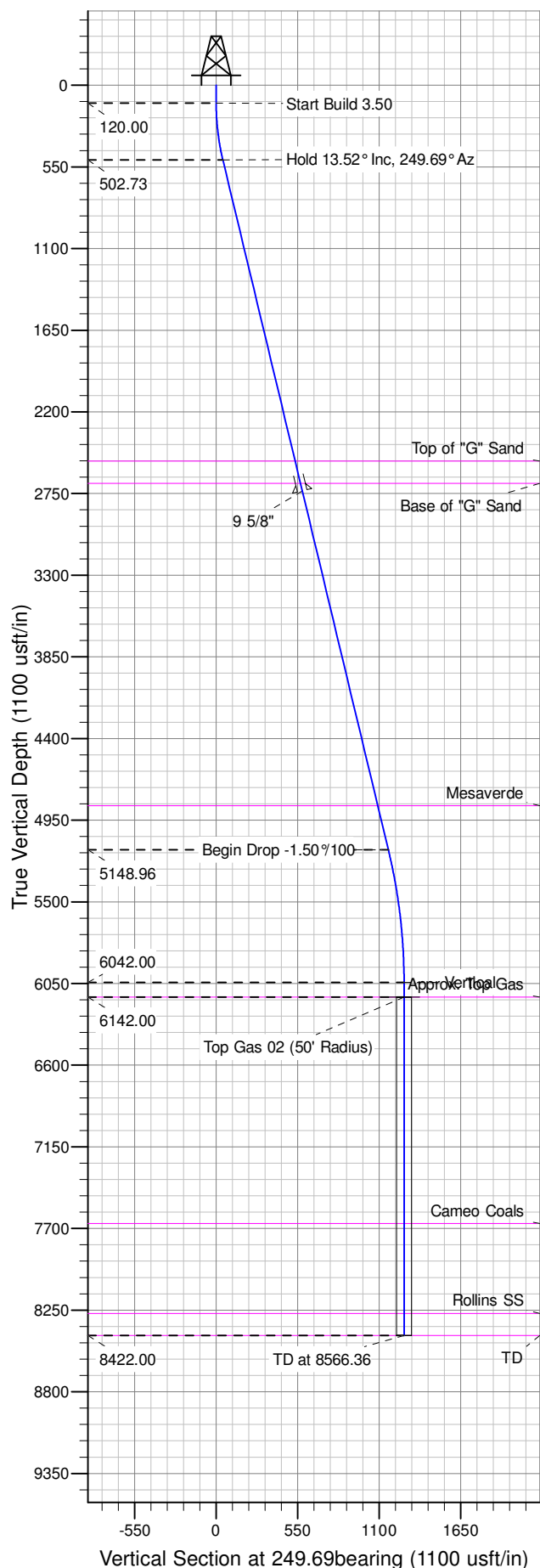
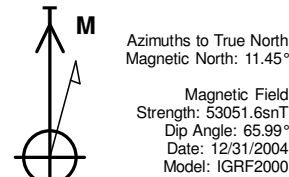
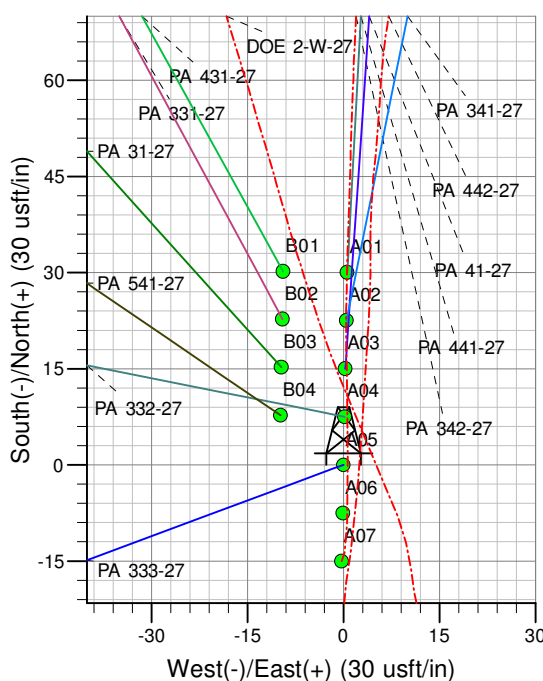
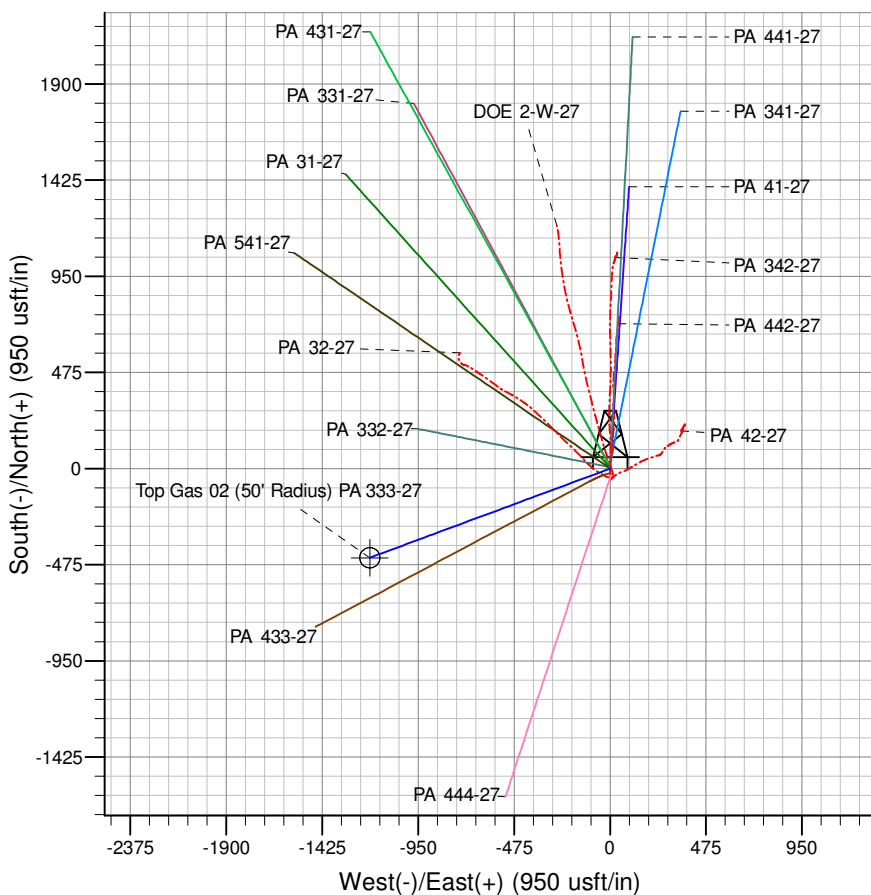




Well Name: PA 333-27
Surface Location: DOE 2-W-27 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5856.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1615080.31848 2300865.08370 39.49600 -107.97775 A05
KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)



ANNOTATIONS								
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.50
502.73	506.31	13.52	249.69	-15.75	-42.55	45.37	45.37	Hold 13.52° Inc, 249.69° Az
5148.96	5284.98	13.52	249.69	-403.48	-1090.35	1162.61	1162.61	Begin Drop -1.50°/100
6042.00	6186.36	0.00	0.00	-440.22	-1189.63	1268.47	1268.47	Vertical
6142.00	6286.36	0.00	0.00	-440.22	-1189.63	1268.47	1268.47	Top Gas
8422.00	8566.36	0.00	0.00	-440.22	-1189.63	1268.47	1268.47	TD at 8566.36



Project: PA 27-06S-095W
Site: DOE 2-W-27 Pad
Well: PA 333-27
Design #2 25Apr14 mab

PICEANCE VLY NAD 83

PA 27-06S-095W

DOE 2-W-27 Pad

PA 333-27 - Slot A05

Wellbore #1

Plan: Design #2 25Apr14 mab

Standard Planning Report - Geographic

03 June, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 333-27 - Slot A05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Project:	PA 27-06S-095W	MD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Site:	DOE 2-W-27 Pad	North Reference:	True
Well:	PA 333-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 25Apr14 mab		

Project	PA 27-06S-095W, Garfield County, CO, 27-06S-095W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	DOE 2-W-27 Pad			
Site Position:		Northing:	1,615,065.30000 usft	Latitude: 39.49596
From: Map		Easting:	2,300,864.40000 usft	Longitude: -107.97775
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.56 °

Well	PA 333-27 - Slot A05			
Well Position	+N/-S	0.00 usft	Northing:	1,615,080.31848 usft
	+E/-W	0.00 usft	Easting:	2,300,865.08370 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,856.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	11.44	65.99	53,052

Design	Design #2 25Apr14 mab			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	249.69

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
506.31	13.52	249.69	502.73	-15.75	-42.55	3.50	3.50	0.00	249.69	
5,284.98	13.52	249.69	5,148.96	-403.48	-1,090.35	0.00	0.00	0.00	0.00	
6,186.36	0.00	0.00	6,042.00	-440.22	-1,189.63	1.50	-1.50	0.00	180.00	
6,286.36	0.00	0.00	6,142.00	-440.22	-1,189.63	0.00	0.00	0.00	0.00	Top Gas 02 (50' Radii
8,566.36	0.00	0.00	8,422.00	-440.22	-1,189.63	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 333-27 - Slot A05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Project:	PA 27-06S-095W	MD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Site:	DOE 2-W-27 Pad	North Reference:	True
Well:	PA 333-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 25Apr14 mab		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,615,080.31848	2,300,865.08370	39.49600	-107.97775	
120.00	0.00	0.00	120.00	0.00	0.00	1,615,080.31848	2,300,865.08370	39.49600	-107.97775	
Start Build 3.50										
200.00	2.80	249.69	199.97	-0.68	-1.83	1,615,079.69048	2,300,863.23305	39.49600	-107.97776	
400.00	9.80	249.69	398.64	-8.29	-22.40	1,615,072.64266	2,300,842.46396	39.49597	-107.97783	
506.31	13.52	249.69	502.73	-15.75	-42.55	1,615,065.73998	2,300,822.12255	39.49595	-107.97790	
Hold 13.52° Inc, 249.69° Az										
600.00	13.52	249.69	593.83	-23.35	-63.09	1,615,058.70108	2,300,801.37972	39.49593	-107.97797	
800.00	13.52	249.69	788.29	-39.58	-106.95	1,615,043.67588	2,300,757.10221	39.49589	-107.97813	
1,000.00	13.52	249.69	982.74	-55.80	-150.80	1,615,028.65069	2,300,712.82469	39.49584	-107.97828	
1,200.00	13.52	249.69	1,177.20	-72.03	-194.65	1,615,013.62549	2,300,668.54718	39.49580	-107.97844	
1,400.00	13.52	249.69	1,371.66	-88.26	-238.51	1,614,998.60030	2,300,624.26967	39.49576	-107.97860	
1,600.00	13.52	249.69	1,566.11	-104.49	-282.36	1,614,983.57510	2,300,579.99215	39.49571	-107.97875	
1,800.00	13.52	249.69	1,760.57	-120.71	-326.21	1,614,968.54990	2,300,535.71464	39.49567	-107.97891	
2,000.00	13.52	249.69	1,955.03	-136.94	-370.06	1,614,953.52471	2,300,491.43712	39.49562	-107.97906	
2,200.00	13.52	249.69	2,149.48	-153.17	-413.92	1,614,938.49951	2,300,447.15962	39.49558	-107.97922	
2,400.00	13.52	249.69	2,343.94	-169.40	-457.77	1,614,923.47432	2,300,402.88210	39.49553	-107.97937	
2,593.42	13.52	249.69	2,532.00	-185.09	-500.18	1,614,908.94356	2,300,360.06164	39.49549	-107.97952	
Top of "G" Sand										
2,600.00	13.52	249.69	2,538.40	-185.62	-501.62	1,614,908.44912	2,300,358.60459	39.49549	-107.97953	
2,747.69	13.52	249.69	2,682.00	-197.61	-534.01	1,614,897.35345	2,300,325.90692	39.49546	-107.97964	
Base of "G" Sand										
2,799.12	13.52	249.69	2,732.00	-201.78	-545.28	1,614,893.49008	2,300,314.52202	39.49544	-107.97968	
9 5/8"										
2,800.00	13.52	249.69	2,732.86	-201.85	-545.48	1,614,893.42393	2,300,314.32707	39.49544	-107.97968	
3,000.00	13.52	249.69	2,927.31	-218.08	-589.33	1,614,878.39873	2,300,270.04956	39.49540	-107.97984	
3,200.00	13.52	249.69	3,121.77	-234.31	-633.18	1,614,863.37354	2,300,225.77204	39.49535	-107.97999	
3,400.00	13.52	249.69	3,316.23	-250.54	-677.04	1,614,848.34835	2,300,181.49453	39.49531	-107.98015	
3,600.00	13.52	249.69	3,510.68	-266.76	-720.89	1,614,833.32315	2,300,137.21701	39.49527	-107.98030	
3,800.00	13.52	249.69	3,705.14	-282.99	-764.74	1,614,818.29796	2,300,092.93950	39.49522	-107.98046	
4,000.00	13.52	249.69	3,899.60	-299.22	-808.60	1,614,803.27276	2,300,048.66199	39.49518	-107.98062	
4,200.00	13.52	249.69	4,094.06	-315.45	-852.45	1,614,788.24756	2,300,004.38448	39.49513	-107.98077	
4,400.00	13.52	249.69	4,288.51	-331.67	-896.30	1,614,773.22237	2,299,960.10696	39.49509	-107.98093	
4,600.00	13.52	249.69	4,482.97	-347.90	-940.15	1,614,758.19717	2,299,915.82945	39.49504	-107.98108	
4,800.00	13.52	249.69	4,677.43	-364.13	-984.01	1,614,743.17198	2,299,871.55193	39.49500	-107.98124	
4,979.55	13.52	249.69	4,852.00	-378.70	-1,023.38	1,614,729.68320	2,299,831.80206	39.49496	-107.98138	
Mesaverde										
5,000.00	13.52	249.69	4,871.88	-380.36	-1,027.86	1,614,728.14678	2,299,827.27442	39.49495	-107.98139	
5,200.00	13.52	249.69	5,066.34	-396.59	-1,071.71	1,614,713.12158	2,299,782.99690	39.49491	-107.98155	
5,284.98	13.52	249.69	5,148.96	-403.48	-1,090.35	1,614,706.73761	2,299,764.18407	39.49489	-107.98161	
Begin Drop -1.50°/100										
5,400.00	11.80	249.69	5,261.19	-412.23	-1,113.98	1,614,698.63873	2,299,740.31759	39.49487	-107.98170	
5,600.00	8.80	249.69	5,457.94	-424.63	-1,147.50	1,614,687.15425	2,299,706.47417	39.49483	-107.98182	
5,800.00	5.80	249.69	5,656.30	-433.44	-1,171.32	1,614,678.99441	2,299,682.42808	39.49481	-107.98190	
6,000.00	2.80	249.69	5,855.72	-438.64	-1,185.37	1,614,674.18158	2,299,668.24522	39.49479	-107.98195	
6,186.36	0.00	0.00	6,042.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197	
Vertical										
6,200.00	0.00	0.00	6,055.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197	
6,286.36	0.00	0.00	6,142.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197	
Top Gas - Approx. Top Gas										
6,400.00	0.00	0.00	6,255.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197	
6,600.00	0.00	0.00	6,455.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 333-27 - Slot A05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Project:	PA 27-06S-095W	MD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Site:	DOE 2-W-27 Pad	North Reference:	True
Well:	PA 333-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 25Apr14 mab		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,800.00	0.00	0.00	6,655.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,000.00	0.00	0.00	6,855.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,200.00	0.00	0.00	7,055.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,400.00	0.00	0.00	7,255.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,600.00	0.00	0.00	7,455.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,800.00	0.00	0.00	7,655.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
7,811.36	0.00	0.00	7,667.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
Cameo Coals									
8,000.00	0.00	0.00	7,855.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
8,200.00	0.00	0.00	8,055.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
8,400.00	0.00	0.00	8,255.64	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
8,416.36	0.00	0.00	8,272.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
Rollins SS									
8,566.36	0.00	0.00	8,422.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197
TD at 8566.36									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas 02 (50' Radius) - plan hits target center - Circle (radius 50.00)	0.00	0.00	6,142.00	-440.22	-1,189.63	1,614,672.72111	2,299,663.94138	39.49479	-107.98197

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,799.12	2,732.00	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,593.42	2,532.00	Top of "G" Sand		0.00		
2,747.69	2,682.00	Base of "G" Sand				
4,979.55	4,852.00	Mesaverde				
6,286.36	6,142.00	Approx. Top Gas				
7,811.36	7,667.00	Cameo Coals				
8,416.36	8,272.00	Rollins SS				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 333-27 - Slot A05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Project:	PA 27-06S-095W	MD Reference:	KELLY BUSHING @ 5882.00usft (NABORS 576 (26' RKB) mab)
Site:	DOE 2-W-27 Pad	North Reference:	True
Well:	PA 333-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 25Apr14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 3.50
506.31	502.73	-15.75	-42.55	Hold 13.52° Inc, 249.69° Az
5,284.98	5,148.96	-403.48	-1,090.35	Begin Drop -1.50°/100
6,186.36	6,042.00	-440.22	-1,189.63	Vertical
6,286.36	6,142.00	-440.22	-1,189.63	Top Gas
8,566.36	8,422.00	-440.22	-1,189.63	TD at 8566.36